

10/77741

S8/3,KWIC/1-9

**8/3,KWIC/1 (Item 1 from file: 8)**

DIALOG(R)File 8: Ei Compendex(R)

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08026879 E.I. No: EIP06219890182

**Title: Performance analysis of MEMS based pedestrian naviga**

Author: Kubrak, Damien; Macabiau, Christophe; Monnerat, Mi

Corporate Source: Ecole Nationale de l'Aviation Civile, To

Conference Title: 18th International Technical Meeting o

Division of The Institute of Navigation, ION GNSS 2005

Conference Location: Long Beach, CA, United States C  
20050913-20050916

E.I. Conference No.: 67277

Source: Proceedings of the 18th International Technical  
Satellite Division of The Institute of Navigation,Proceedings of the 18th International Technical Meeting o  
Division of The Institute of Navigation, ION GNSS 2005 v 200

Publication Year: 2005

Language: English

...Abstract: signals to acquire and process. Therefore, c  
techniques shall be developed to supply or enhance GPS ba  
solutions when GPS reception is disrupted. MEMS based tec  
promising ones. In this paper, the performance of...

...Pedestrian Navigation System (PNS) is studied. As the PN  
be used during GPS outages, only the navigation using excl  
sensors is addressed. The Pedestrian Navigation Module (PNM.

...the navigation based on sensor output signature is discus  
second positioning technique, the travelled distance and  
estimation are done separately. The travelled distance i  
based on step length or velocity estimation, whereas the he  
computation is based on gyro and magnetometer measurements.  
inertial navigation, two cases of...

...one, and is well adapted for constrained navigation. It p  
estimation of the travelled distance and also a reliable  
if low cost sensors are used. Moreover, the second...

...on sensor motion with respect to the user body. In the u  
navigation mode, the travelled distance as well as the h

estimated with accuracy depending on the type and...

**8/3,KWIC/2 (Item 2 from file: 8)**

DIALOG(R)File 8:Ei Compendex(R)

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05672177 E.I. No: EIP00105360817

**Title: Integration of the global positioning system and information systems for traffic congestion studies**

Author: Taylor, Michael A.P.; Woolley, Jeremy E.; Zito, Ro

Corporate Source: Univ of South Australia, Adelaide, Aust

Source: Transportation Research Part C: Emerging Technologies  
2000. p 257-285

Publication Year: 2000

CODEN: TRCMDY ISSN: 0968-090X

Language: English

Abstract: The Transport Systems Centre (TSC) has developed Global Positioning System (GPS) Geographical Information Systems collecting on-road traffic data from a probe vehicle. This..

...integrated with the engine management system of a vehicle time-tagged data on GPS position and speed, distance, acceleration, fuel consumption, engine performance, and air emissions on a second-by-second basis...

...of traffic congestion and the discussion of a number of parameters of congestion. The computation of these parameters in a corridor on the basis of data collected from the integrated system is described. The GIS provides a database management system for the integration, display, and analysis of the data collected from the in-vehicle instrumentation. (Author abstract) 28 Refs.

**8/3,KWIC/3 (Item 3 from file: 8)**

DIALOG(R)File 8:Ei Compendex(R)

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05393918 E.I. No: E2099104841960

**Title: Innovative measures of accuracy and situational awareness in land navigation**

Author: Wesler, Mary Mc.; Marshak, William P.; Glumm, Moni

<http://www.dialogclassic.com/main.vmgw>

10/24/2006

Corporate Source: SYTRONICS, Inc, Dayton, OH, USA

Conference Title: Proceedings of the 1998 42nd Annual  
Factors and Ergonomics Society'

Conference Location: Chicago, IL, USA Conf  
19981005-19981009

E.I. Conference No.: 55715

Source: Proceedings of the Human Factors and Ergonomics So  
p 1366-1370

Publication Year: 1998

CODEN: PHFSDQ ISSN: 0163-5182

Language: English

Abstract: A helmet-mounted display (HMD)-based computer  
system that partially mimics the U.S. Army's Land Warrior en  
position...

...HMD system was compared to traditional navigation with pa  
compass, and a hand-held GPS receiver. New objective comp  
measures of navigational accuracy and situational awareness  
developed. Traditional measures of navigational...

...detect differences between HMD and traditional navigation  
more sensitive new measure based on distance traveled fo  
HMD-based system to be superior. This method is easily adapt  
civilian...

...is enhanced SA. A SA measure was developed which used pro  
generated by the computer. Although the probe questions fo  
significant differences between the conditions, the method s  
...

**8/3,KWIC/4 (Item 1 from file: 63)**

DIALOG(R)File 63:Transport Res(TRIS)

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00986928 DA

**TITLE: CHICAGO TRANSIT AUTHORITY DEPLOYS GPS DEVICES ON BUS**  
CORPORATE SOURCE: Advanstar Communications, Incorporated, 13  
Street, Duluth, MN, 55802-2065,

JOURNAL: GPS World Vol: 16 Issue Number: 2 Pag: p34

PUBLICATION DATE: 20050200 PUBLICATION YEAR: 2005

LANGUAGE: English SUBFILE: BTRIS; UMTRIS (B; U)

<http://www.dialogclassic.com/main.vmgw>

10/24/2006

SOURCE ACCESSION NUMBER: BTRIS Record Number 5305

ISSN: 10485104

AVAILABILITY: Advanstar Communications, Incorporated; 131 We  
; Duluth; MN ; 55802-2065

FIGURES: 1 Fig.

DATA SOURCE: UC Berkeley Transportation Library

**TITLE: CHICAGO TRANSIT AUTHORITY DEPLOYS GPS DEVICES ON B**

ABSTRACT: This article relates how the Chicago Transit Autho  
usin g Global Positioning System ( GPS )-gyro-odometer t  
on it s buses to assist its hearing or visually impaired  
through automated voice announcements. These systems inv  
receiver that receives information such as real-time pos  
and speed. In addition, an integrated on-board gyro give  
information, while an odometer provides the distance  
Other advantages afforded by the tracking systems includ  
monitoring, automatic passenger counting, computer -aid  
nd bus stop inventories.

**8/3,KWIC/5 (Item 2 from file: 63)**

DIALOG(R)File 63:Transport Res(TRIS)

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00962517 DA

**TITLE: A TAXI DISPATCH SYSTEM BASED ON CURRENT DEMANDS AND  
C CONDITIONS**

AUTHOR(S): Lee, Der-Horng; Wang, Hao; Cheu, Ruey Long; Teo,  
CORPORATE SOURCE: National University of Singapore. Dept. of  
Engineering, ,

JOURNAL: National Research Council (U.S.). Transportation Re  
Meeting (82nd : 2003 : Washington, D.C.). Compendium of  
Pag: 21 p.

SUPPLEMENTAL NOTES: Publication Date: 2003. Transportation R  
Washington DC. Remarks: Paper prepared for presentation  
annual meeting of the Transportation Research Board, Wa  
January 200 3. Format: CD ROM

PUBLICATION DATE: 20030000 PUBLICATION YEAR: 2003

LANGUAGE: English SUBFILE: PATH

SOURCE ACCESSION NUMBER: PATH Record Number 28064

AVAILABILITY: Item held at Univ. of Calif., Berkeley, Inst T  
Lib Refer to: <http://www.lib.berkeley.edu/ITSL/services>.

DATA SOURCE: UC Berkeley Transportation Library - PATH Datab

<http://www.dialogclassic.com/main.vmgw>

10/24/2006

...ABSTRACT: operators in Singapore to handle current bookin  
dispatch system adopts the Global Positioning System ( G  
based on the nearest-coordinate method, i.e. the taxi as  
  
...customer satisfaction. The effectiveness of both the exis  
proposed dispatch systems is investigated through compu  
simulations. This study presents and analyzes the result  
simulation model of the Singapore...  
  
...quickly, leading to more than 50% reductions in passenger  
and average travel distance . A more efficient dispat  
result in higher standards of customer service, and a...

**8/3,KWIC/6 (Item 3 from file: 63)**

DIALOG(R)File 63:Transport Res(TRIS)  
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00812449 DA

**TITLE: USE OF ELECTRONIC TRAVEL DIARIES AND VEHICLE INSTRUM  
PACKAGES IN THE YEAR 2000: ATLANTA REGIONAL HOUSEHOLD TRA**  
AUTHOR(S): Wolf, J; Guensler, R; Washington, S; Frank, L  
CORPORATE SOURCE: Transportation Research Board, 2101 Consti  
NW , Washington, DC, 20418,  
REPORT NUMBER: E-C026  
JOURNAL: Transportation Research Circular Pag: pp 413-429  
PUBLICATION DATE: 20010300 PUBLICATION YEAR: 2001  
LANGUAGE: English SUBFILE: HRIS; UMTRIS (H; U)  
ISSN: 00978515  
AVAILABILITY: N/A  
ORDER NUMBER: N/A  
FIGURES: 1 Fig. TABLES: 1 Tab.  
REFERENCES: Refs.  
CONFERENCE TITLE: Personal Travel: The Long and Short of It

...ABSTRACT: days). These three packages include: a handheld  
travel diary (ETD) with Global Positioning System ( GPS  
to capture trip information for all modes of travel; a c  
electronic travel monitoring system (CETMS), which inclu  
rugged laptop computer , a GPS receiver and antenna,  
engine monitoring system, to capture all trip and vehicl  
and a passive GPS receiver, antenna, and data logger t

vehicle trips only. The first two systems will...

...vehicle trips), trip purpose, start and finish time (or d  
origin location, destination location, and distance t  
addition to these traditional elements, route choice, fu  
classification of each link in the route, link-based tra  
freeway traffic conditions can be determined by tying G  
geographic information system (GIS) database and real-ti  
traffic monitoring system...

...and engine operating conditions affecting emissions that  
captured via an onboard engine computer monitor--on a  
second-by-second basis. These data include such variable  
speed...

...catalyst temperature, gear selection, air/fuel ratios, an  
temperature. The third system, the passive GPS receive  
will be used with a subset of the household sample emplo  
traditional paper diary methods. The GPS data will be  
actual versus reported trip data, allowing for the devel

...completion of prototype testing and data collection in th  
1999, 27 ETDs with GPS , 27 passive GPS systems, and  
be procured and assembled for use in the 1999-2000...

**8/3,KWIC/7 (Item 4 from file: 63)**

DIALOG(R)File 63:Transport Res(TRIS)

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00800521 DA

**TITLE: THE USE OF ELECTRONIC TRAVEL DIARIES AND VEHICLE INS  
PACKAGES IN THE YEAR 2000 REGIONAL ATLANTA HOUSEHOLD TRAV**

AUTHOR(S): Wolf, J; Guensler, R; Washington, S; Frank, L

CORPORATE SOURCE: Federal Highway Administration, 400 7th St  
Washington, DC , 20590, Department of Transportation, B  
Transportation Statistics, 400 7th Street, SW, Washingto

Pag: 16p

PUBLICATION DATE: 19990000 PUBLICATION YEAR: 1999

LANGUAGE: English SUBFILE: HRIS (H)

CONFERENCE TITLE: Personal Travel: the Long and Short of It

...ABSTRACT: 10 days). These three packages include: 1) a ha

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impaired. The system uses a laptop computer which includes synthesized voice, geographic information systems (GIS) positioning using Global Positioning System (GPS), and navigation system designed to take over when the GPS information is not available. A pedometer is used by the navigation system to determine distance travelled, while compass determines direction.

**8/3,KWIC/9 (Item 1 from file: 81)**

DIALOG(R) File 81:MIRA - Motor Industry Research  
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149152

**ERG Motorola Alliance receives award for smart card automatic collection system in Ventura County, Calif**

Motorola - Press Release

June 6, 2000

Document Type: PRESS RELEASE Language: ENGLISH

Record Type: ABSTRACT

Supplier Record Type: Press Release

...operators in the region. The contactless smart card solutions incorporate Global Positioning System (GPS) and Automatic (APC) system with Automatic Fare Collection (AFC). The award

...information-gathering systems with a contactless smart card. The addition of the GPS and APC systems will turn the advanced collection system into a comprehensive information-gathering example, GPS satellites will be used to track the location of 100 buses in...

...MM4000L contactless smart cards. Smart cards are credit devices with an embedded computer chip that increasingly are used around the globe to make consumers' lives more convenient...

...VCTC, said that they particularly appreciated the Alliance knowledge of the APC and GPS systems and their real-world smart card applications. Francois Dutray, Motorola vice president

...region. Another advantage riders will enjoy is that fares are based on the actual distance travelled and automatically incorporated

electronic travel diary (ETD) with GPS capabilities to information for all modes of travel; 2) a comprehensive travel monitoring system (CETMS), which includes an ETD, laptop computer, a GPS receiver and antenna, and an monitoring system, to capture all trip and vehicle infor a passive GPS receiver, antenna, and data logger to ca trips only. The first two systems will...

...vehicle trips), trip purpose, start and finish time (or d origin location, destination location, and distance t addition to these traditional elements, route choice, fu classification of each link in the route, link-based tra freeway traffic conditions can be determined by tying G GIS database and real-time advanced traffic monitoring s enhancing the...

...vehicle and engine operating conditions affecting emissio feasibly be captured via an onboard computer monitor - second basis. The third system, the passive GPS receiv will be used with a subset of the household sample emplo traditional paper diary methods. The GPS data will be actual versus reported trip data, allowing for the devel

**8/3,KWIC/8 (Item 5 from file: 63)**

DIALOG(R)File 63:Transport Res(TRIS)

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00791794 DA

**TITLE: PERSONAL NAVIGATION SYSTEM FOR THE VISUALLY IMPAIRED**

AUTHOR(S): LaPierre, Charles M.

CORPORATE SOURCE: Carleton University,

REPORT NUMBER: AAT MQ36892 (UMI order no.)

Pag: 134 p.

SUPPLEMENTAL NOTES: Publication Date: 1998 UMI Company, Ann

Remarks: Thesis (M. Eng.)--Carleton University

PUBLICATION DATE: 19980000 PUBLICATION YEAR: 1998

LANGUAGE: eng SUBFILE: PATH

SOURCE ACCESSION NUMBER: PATH Record Number 19177

AVAILABILITY: Order from UMI Refer to URL:

[http://wwwlib.umi.com/dissertations/;](http://wwwlib.umi.com/dissertations/)

DATA SOURCE: University of California, Berkeley--PATH Databa

...ABSTRACT: that provides verbal location information to th

<http://www.dialogclassic.com/main.vmgw>

10/24/2006



special discounts that apply. The announcement was made at t  
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